RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/528, 845 A_

Source: _____ PCT_

Date Processed by STIC: _____ 02/02/2006_

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RAW SEQUENCE LISTING   DATE: 02/02/2006
PATENT APPLICATION: US/10/528,845A   TIME: 11:42:24

Input Set : **A:\00185660.ST25.txt**
Output Set: **N:\CRF4\02022006\J528845A.raw**

```
     3 <110> APPLICANT: DSM IP ASSETS B.V.
     5 <120> TITLE OF INVENTION: A Gene Encoding Vitamin B6 Phosphate Phosphatase And Use
Thereof
     7 <130> FILE REFERENCE: 21419 US (C038435/0185660)
     9 <140> CURRENT APPLICATION NUMBER: 10/528,845A
C--> 10 <141> CURRENT FILING DATE: 2005-03-23
    12 <160> NUMBER OF SEQ ID NOS: 12
    14 <170> SOFTWARE: PatentIn version 3.3
    16 <210> SEQ ID NO: 1
    17 <211> LENGTH: 20
    18 <212> TYPE: PRT
    19 <213> ORGANISM: Sinorhizobium meliloti
    21 <400> SEQUENCE: 1
    23 Ala His Ala Ile Asp Tyr Ser Val Val Pro Ala Asp Pro Ala Leu Gly
    24 1               5                   10                  15
    27 Glu Ala Ile Lys
    28             20
    31 <210> SEQ ID NO: 2
    32 <211> LENGTH: 14
    33 <212> TYPE: PRT
    34 <213> ORGANISM: Sinorhizobium meliloti
    36 <400> SEQUENCE: 2
    38 Ile Asp Thr Ala Asn Ala Val Met Phe Glu Asp Leu Pro Arg
    39 1               5                   10
    42 <210> SEQ ID NO: 3
    43 <211> LENGTH: 23
    44 <212> TYPE: PRT
    45 <213> ORGANISM: Sinorhizobium meliloti
    47 <400> SEQUENCE: 3
    49 Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly Ile Asp
    50 1               5                   10                  15
    53 Pro Asn Asp Phe Leu Glu Arg
    54             20
    57 <210> SEQ ID NO: 4
    58 <211> LENGTH: 10
    59 <212> TYPE: PRT
    60 <213> ORGANISM: Sinorhizobium meliloti
    62 <400> SEQUENCE: 4
    64 Met Lys Lys Leu Asp Arg Met Pro Thr His
    65 1               5                   10
    68 <210> SEQ ID NO: 5
    69 <211> LENGTH: 21
    70 <212> TYPE: DNA
    71 <213> ORGANISM: Artificial Sequence
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        73 <220> FEATURE:
        74 <223> OTHER INFORMATION: Primer CN02
        77 <220> FEATURE:
        78 <221> NAME/KEY: misc_feature
        79 <222> LOCATION: (12)..(12)
        80 <223> OTHER INFORMATION: n is inosine
        82 <220> FEATURE:
        83 <221> NAME/KEY: misc_feature
        84 <222> LOCATION: (18)..(18)
        85 <223> OTHER INFORMATION: n is inosine
        87 <400> SEQUENCE: 5
W-->    88 atgaaraary tngaymgnat g                              21
        91 <210> SEQ ID NO: 6
        92 <211> LENGTH: 20
        93 <212> TYPE: DNA
        94 <213> ORGANISM: Artificial Sequence
        96 <220> FEATURE:
        97 <223> OTHER INFORMATION: Primer C642
       100 <220> FEATURE:
       101 <221> NAME/KEY: misc_feature
       102 <222> LOCATION: (12)..(12)
       103 <223> OTHER INFORMATION: n is a, g, c or t
       105 <220> FEATURE:
       106 <221> NAME/KEY: misc_feature
       107 <222> LOCATION: (15)..(15)
       108 <223> OTHER INFORMATION: n is a, g, c or t
       110 <400> SEQUENCE: 6
W-->   111 tcytcraaca tncangcrtt                                20
       114 <210> SEQ ID NO: 7
       115 <211> LENGTH: 21
       116 <212> TYPE: DNA
       117 <213> ORGANISM: Artificial Sequence
       119 <220> FEATURE:
       120 <223> OTHER INFORMATION: Primer C101
       122 <400> SEQUENCE: 7
       123 gccgaattcg cccatgtcac c                              21
       126 <210> SEQ ID NO: 8
       127 <211> LENGTH: 21
       128 <212> TYPE: DNA
       129 <213> ORGANISM: Artificial Sequence
       131 <220> FEATURE:
       132 <223> OTHER INFORMATION: Primer C102
       134 <400> SEQUENCE: 8
       135 cgccgtgtcg atgcggtgaa g                              21
       138 <210> SEQ ID NO: 9
       139 <211> LENGTH: 708
       140 <212> TYPE: DNA
       141 <213> ORGANISM: Sinorhizobium meliloti
       143 <400> SEQUENCE: 9
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144 atgaagaagc tcgaccgcat gccgacccac gccgaattcg cccatgtcac cgactgggtc   60
146 ttcgacctcg acaacacgct ctatccgcat cacgtcaatc tgttctcaca gatcgaccgc  120
148 aacatgacgg cctatgttgc cgaactcctg tcgctggagc ctgcggaggc gaagaagctg  180
150 cagaaggaat actaccgcga ccacggcacc acgcttcagg gcctgatgct tcatcacggc  240
152 atcgatccca atgatttcct cgaaagagcc cacgccatcg actatagcgt ggtgccggcc  300
154 gatccggcgc tcggcgaggc gatcaaggcg ctgcccggac gcaagttcat cttcaccaac  360
156 ggcagcgtcg cccatgcgga gatgaccgcg cgggcgctcg gcattctcga gcatttcaac  420
158 gacatcttcg acatcgtcgc cgccggcttc ataccgaagc ccgccggcga cacctacgac  480
160 aagttcatgg gccttcaccg catcgacacg gcgaatgagg tgatgttcga ggatctgccg  540
162 cgcaacctgg tcgtccctaa ggcgctcggc atgaagacgg tgctgctcgt gccgcgcaat  600
164 ctcgaatacg agttcgccga ggcctgggaa acgtcgagcg acgcggacga tcagatcgac  660
166 tacgtcacgg aagacctggc gggtttcctg cgcagtgtga ttgtttag              708
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169 <210> SEQ ID NO: 10
170 <211> LENGTH: 235
171 <212> TYPE: PRT
172 <213> ORGANISM: Sinorhizobium meliloti
174 <400> SEQUENCE: 10

```
176 Met Lys Lys Leu Asp Arg Met Pro Thr His Ala Glu Phe Ala His Val
177 1               5                   10                  15
180 Thr Asp Trp Val Phe Asp Leu Asp Asn Thr Leu Tyr Pro His His Val
181             20                  25                  30
184 Asn Leu Phe Ser Gln Ile Asp Arg Asn Met Thr Ala Tyr Val Ala Glu
185         35                  40                  45
188 Leu Leu Ser Leu Glu Pro Ala Glu Ala Lys Lys Leu Gln Lys Glu Tyr
189     50                  55                  60
192 Tyr Arg Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly
193 65                  70                  75                  80
196 Ile Asp Pro Asn Asp Phe Leu Glu Arg Ala His Ala Ile Asp Tyr Ser
197                 85                  90                  95
200 Val Val Pro Ala Asp Pro Ala Leu Gly Glu Ala Ile Lys Ala Leu Pro
201             100                 105                 110
204 Gly Arg Lys Phe Ile Phe Thr Asn Gly Ser Val Ala His Ala Glu Met
205         115                 120                 125
208 Thr Ala Arg Ala Leu Gly Ile Leu Glu His Phe Asn Asp Ile Phe Asp
209     130                 135                 140
212 Ile Val Ala Ala Gly Phe Ile Pro Lys Pro Ala Gly Asp Thr Tyr Asp
213 145                 150                 155                 160
216 Lys Phe Met Gly Leu His Arg Ile Asp Thr Ala Asn Glu Val Met Phe
217             165                 170                 175
220 Glu Asp Leu Pro Arg Asn Leu Val Val Pro Lys Ala Leu Gly Met Lys
221             180                 185                 190
224 Thr Val Leu Leu Val Pro Arg Asn Leu Glu Tyr Glu Phe Ala Glu Ala
225         195                 200                 205
228 Trp Glu Thr Ser Ser Asp Ala Asp Asp Gln Ile Asp Tyr Val Thr Glu
229     210                 215                 220
232 Asp Leu Ala Gly Phe Leu Arg Ser Val Ile Val
233 225                 230                 235
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236 <210> SEQ ID NO: 11
237 <211> LENGTH: 32

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```
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Primer P101
244 <400> SEQUENCE: 11
245 gaagcttccc gggccgtgtc ataaacccgc cc                              32
248 <210> SEQ ID NO: 12
249 <211> LENGTH: 32
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Primer P102
256 <400> SEQUENCE: 12
257 caagcttccc gggatcatcg ccgggtttta cg                              32
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/02/2006
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 12,18
Seq#:6; N Pos. 12,15

VERIFICATION SUMMARY   DATE: 02/02/2006
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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0